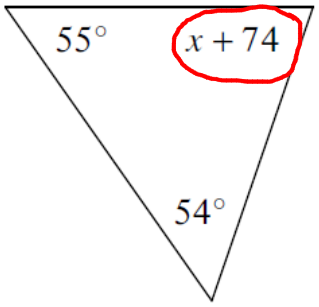


55 + 54 = 109

180 − 109 = 71

71 = x + 74

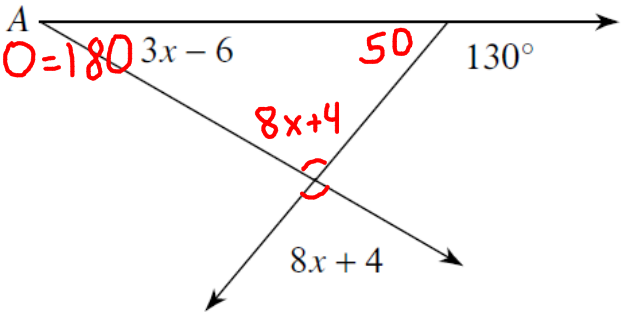
−3 = x

3x − 6 + 8x + 4 + 50 = 180

11x + 48 = 180

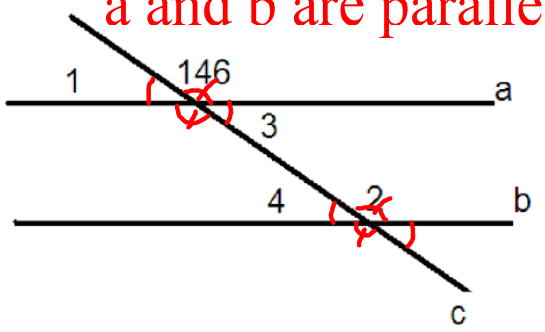
11x = 132

x = 12



Geometry Review – Triangles and Angles

a and b are parallel



1) Angle 1 34
2) Angle 2 146
3) Angle 3 34
4) Angle 4 34

Define, in words, the following and state which segment, in the image below, matches the description.

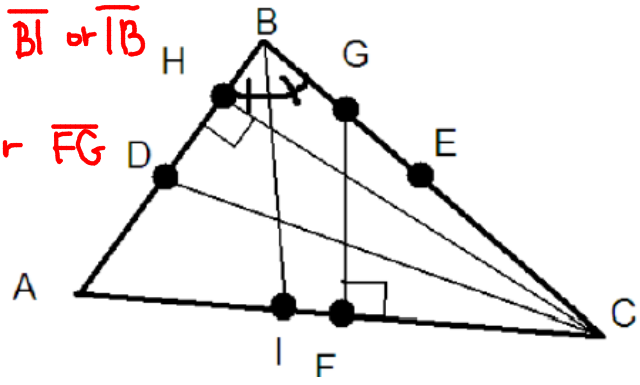
D, E, and F are the midpoints of each side.

5) median mid to vertex $\overline{CD}$ or $\overline{DC}$

6) altitude vertex, 90° $\overline{HC}$ or $\overline{CH}$

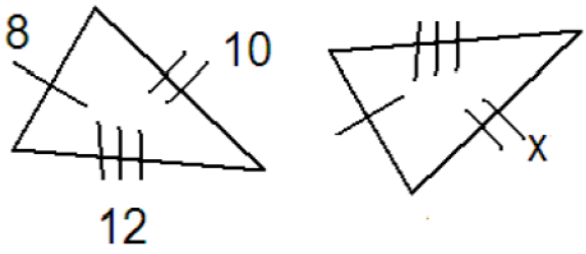
7) angle bisector cuts angle in half $\overline{BI}$ or $\overline{IB}$

8) perpendicular bisector mid, 90° $\overline{GF}$ or $\overline{FG}$



SSS ASA SAS AA HL

Name the type of congruence that each pair of triangles displays, and fill in the missing values, if applicable.

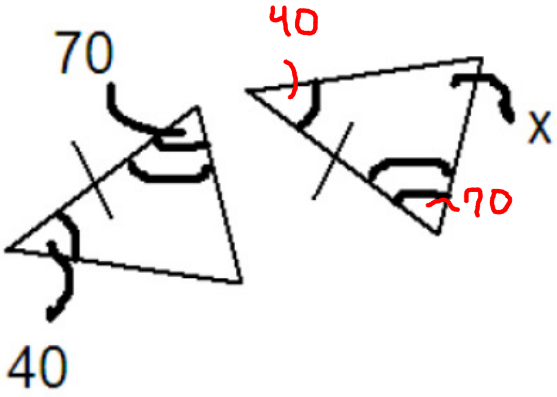


9) Type of congruence SSS

10) x= 10

11) type of congruence ASA

12) x= 70



13) type of congruence SAS

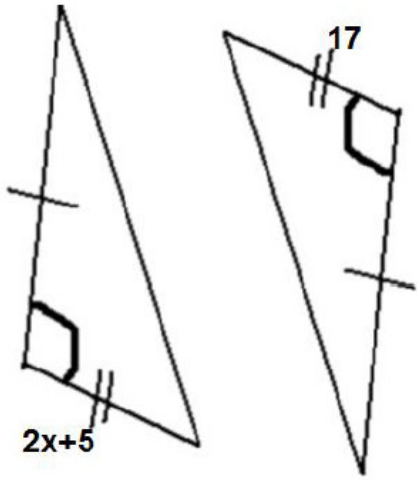
14) x= 6

$2x+5=17$

$-5 \quad -5$

$2x=12$

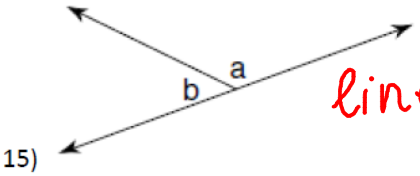
$x=6$



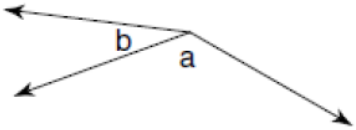
Name the relationship: complementary, linear pair, vertical, or adjacent.

90 180 ✗ next to

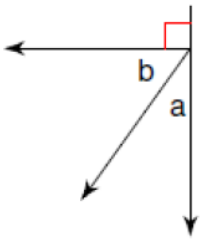
=

15) 

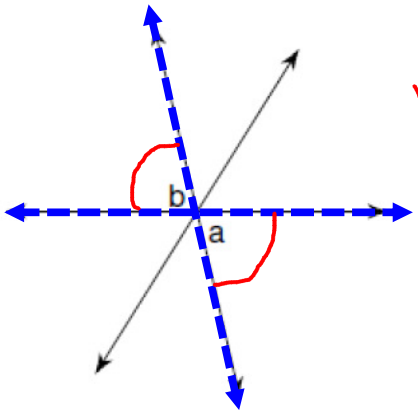
linear pair

16) 

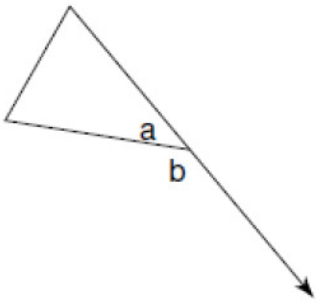
adjacent

17) 

complementary

18) 

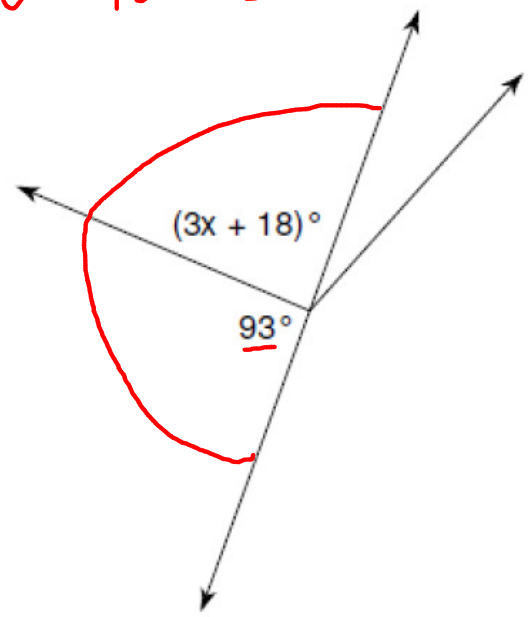
vertical

19) 

linear pair

Find the value of x.

$180 - 93 = 87$



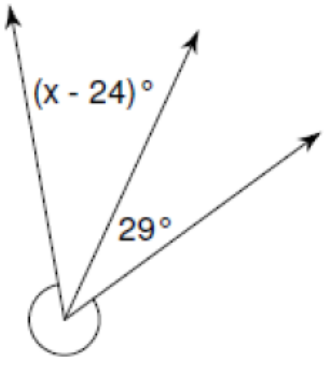
20)

$3x + 18 = 87$

$-18 \quad -18$

$\frac{3x}{3} = \frac{69}{3}$

$x = 23$



21)

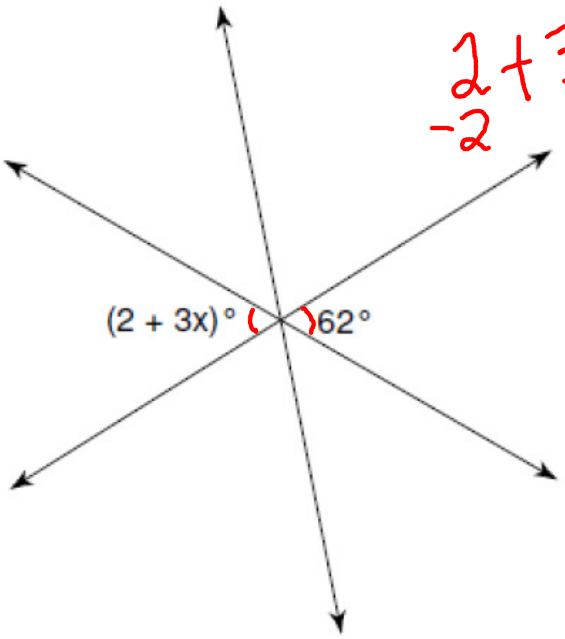
$360 - 296 = 64$

$64 - 29 = 35$

$x - 24 = 35$

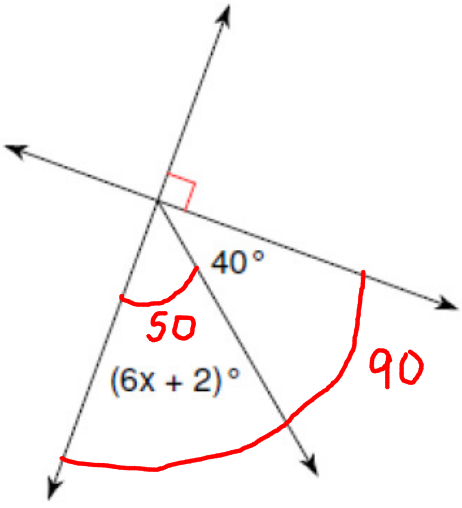
$+24 \quad +24$

$x = 59$



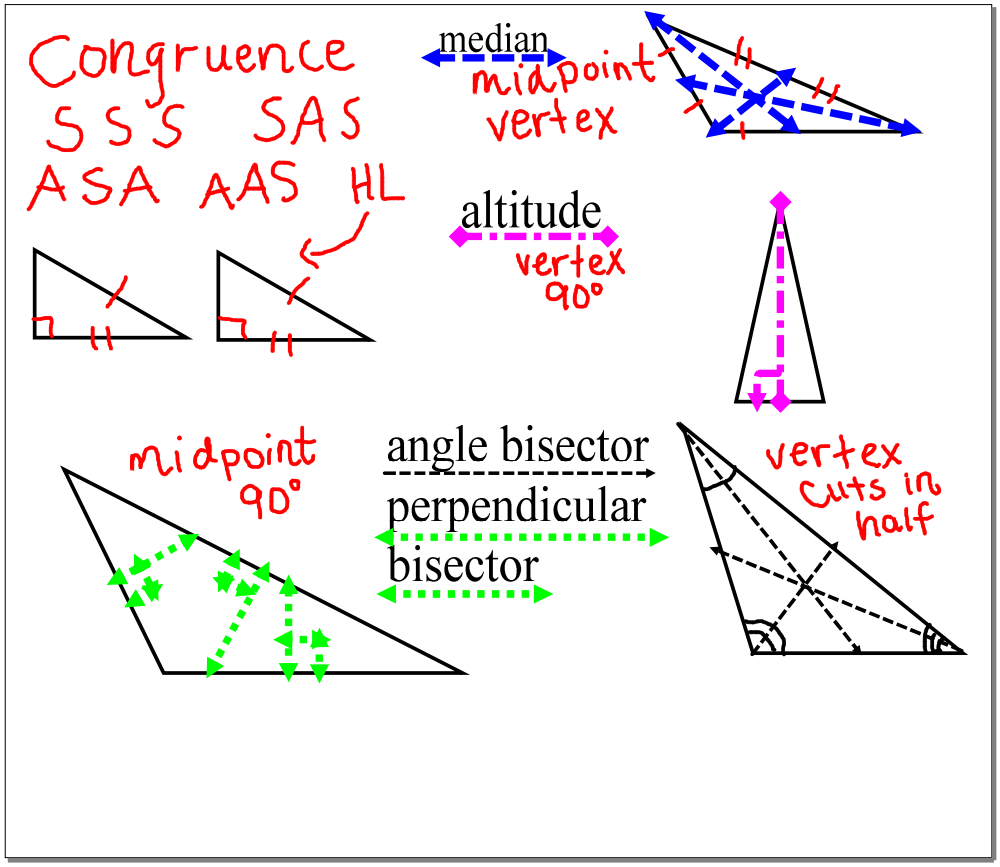
22)

$2+3x=62$
$-2 \quad -2$
$\frac{3x}{3}=\frac{60}{3}$
$x=20$



23)

$6x+2=50$
$-2 \quad -2$
$\frac{6x}{6}=\frac{48}{6}$
$x=8$


Congruence
SSS SAS
ASA AAS HL
median
midpoint
vertex
altitude
vertex
90°
midpoint
90°
angle bisector
perpendicular
bisector
vertex
cuts in
half